

AMENDMENTS TO THE CLAIMS

This claim listing replaces all prior versions, and listings, of claims in the application:

1. (Currently Amended): A connecting structure ~~for connecting a first member and a second member~~, comprising:

a first member; and

a ~~second member that includes a blade portion, member,~~

wherein the first member has a peripheral wall portion that includes an outer end face ~~and~~ a stepped portion engaged with the second member,

wherein the peripheral wall portion ~~is a~~ includes a thin-shaped deformed portion that is deformed radially inwardly ~~of the~~ with respect to the stepped portion of the first member,

wherein the deformed portion ~~has a thin shape that is provided by~~ is a cut section of the peripheral wall portion,

wherein the deformed portion is positioned axially within the outer end surface of the peripheral wall portion, and

wherein the deformed portion has a concave face abutting the second member.

~~formed by a cut performed by the blade portion, and~~

~~wherein the blade portion includes an inclined face portion that is recessed with a curvature.~~

2. (Currently Amended): A connecting structure of a pipe connected to a passage formed in a member, comprising:

a projection portion that ~~is provided so as to project~~ projects from the pipe radially and outwardly outwardly;

a recess portion that is provided at an open end of the passage formed in the member and that receives the projection portion of the ~~pipe; and a peripheral wall portion that~~ pipe,

wherein the recess portion is defined by a peripheral wall portion that includes a thin-shaped deformed portion that is deformed radially inward,

wherein the deformed portion is a cut section of the peripheral wall portion,

wherein the deformed portion is positioned axially within an outer end surface of the peripheral wall portion and is engaged with the projection portion by bending and deforming the peripheral wall portion inwardly of the recess portion, and

~~while cutting the peripheral wall portion in a thin shape at a distance from the recess portion~~

wherein so that the projection portion of the pipe, which is inserted into the opening end of the passage in the member, abuts a concave face of the deformed portion, and the projection portion of the pipe that has been received in the recess portion are connected,

~~wherein the peripheral wall portion is deformed by a cut performed by a blade portion, and~~

~~wherein the blade portion includes an inclined face portion that is recessed with a curvature.~~

3. (Currently Amended): The connecting structure of a pipe according to claim 2, wherein the projection portion ~~is formed in~~ has an annular shape on an outer periphery of the pipe,

wherein the recess portion ~~is formed in~~ has an annular shape on an outer periphery of the passage in the member, and

wherein the peripheral wall portion is deformed inwardly in a continuous annular shape.

4. (Currently Amended): The connecting structure of a pipe according to claim 2, wherein the projection portion ~~is formed in~~ has an annular shape on an outer periphery of the pipe,

wherein the recess portion ~~is formed in~~ has an annular shape on an outer periphery of the passage in the member, and

wherein the peripheral wall portion is bent and deformed inwardly at intermittent sections in a circumferential direction.

5. (Withdrawn): A connecting method for connecting a pipe to a passage formed in a member, comprising:

a first step of inserting the pipe in the passage formed in the member and receiving a flange portion formed on an outer periphery of the pipe in a recess portion formed at an open end of the passage in the member; and

a second step of, while cutting a peripheral wall portion of the recess portion in a thin shape, bending and deforming the cut portion of the peripheral wall portion inwardly to engage the inwardly bent and deformed peripheral wall portion with the projection portion.

6. (Withdrawn - Currently Amended): The connecting method ~~of a pipe~~ according to claim 5, wherein the second step is achieved by pressure-piecing a blade portion that has an inclined face portion into a peripheral edge of the recess portion.

7. (Withdrawn - Currently Amended): The connecting method ~~of a pipe~~ according to claim 6,

wherein the flange portion and the recess portion are annular, and

wherein the blade portion is continuously formed in an annular shape.

8. (Withdrawn - Currently Amended): The connecting method ~~of a pipe~~ according to claim 6,

wherein the flange portion and the recess portion are annular, and

wherein the blade portion is formed in plural sections intermittently in a circumferential direction.

9. (Withdrawn – Currently Amended): A die used for connecting a pipe to a passage formed in a member, comprising:

a cylindrical blade tool that ~~has the~~ has a continuous annular blade portion, and
a die main body that fixes the cylindrical blade tool,

wherein the cylindrical blade tool is configured to be divided into a plurality of divided bodies such that the pipe is insertable into a hollow portion of the cylindrical blade tool.

10. (Withdrawn): The die according to claim 9,

wherein the blade tool is provided in order to connect a plurality of pipes by the number corresponding to the number of the pipes, and

wherein the blade tools adjacent to each other are fixed in the die main body so that blade portions thereof have been circumscribed.

11. (Withdrawn - Currently Amended): A die used for connecting a pipe to a passage formed in a member, comprising:

a cylindrical blade tool that ~~has the~~ has a plurality of intermittent blade portions extending in a circumferential direction, and

a die main body that fixes the cylindrical blade tool,

wherein the cylindrical blade tool is provided with a long groove that allows insertion of a pipe between two blade portions adjacent in a circumferential direction.

12. (Withdrawn): The die according to claim 11,

wherein the blade tool is provided in order to connect a plurality of pipes by the number corresponding to the number of the pipes, and

wherein the blade tools adjacent to each other are fixed in the die main bodies in a state that blade portions thereof have been circumscribed.

13. (Withdrawn – Currently Amended): The connecting ~~structure of a pipe~~ method according to ~~claim 2~~ claim 6, wherein the blade portion includes the inclined face portion, an outer face portion, and a blade edge that is continuous with the inclined face portion and the outer face portion.

14. (Withdrawn – Currently Amended): The connecting ~~structure of a pipe~~ method according to claim 13, wherein the outer face ~~portion~~ is substantially parallel to an axial line of the blade portion.

15. (Withdrawn – Currently Amended): The connecting ~~structure of a pipe~~ method according to claim 13, wherein the blade edge has a flat surface that is substantially perpendicular to the axial line of the blade portion.

16. (New): A connecting structure comprising:
a first member; and
a second member,
wherein the first member has a peripheral wall portion that includes an outer end face and a stepped portion engaged with the second member,
wherein the peripheral wall portion includes a thin-shaped deformed portion that is defined by a groove formed in the outer end face and that is deformed inwardly with respect to the stepped portion of the first member,
wherein the deformed portion has a convex outer face and an inner face that abuts the second member.

17. (New): The connecting structure according to claim 16, wherein the inner face of the peripheral wall portion has a concave shape.

18. (New): A connecting structure of a pipe connected to a passage formed in a member, comprising:
a projection portion that projects from the pipe radially outwardly;
a recess portion that is provided at an open end of the passage formed in the member
and that receives the projection portion of the pipe,
wherein the recess portion is defined by a peripheral wall portion that includes a thin-shaped deformed portion,
wherein the deformed portion: (a) is defined by a groove formed in an outer end face of the peripheral wall portion at a distance from the recess portion, (b) is deformed radially inward with respect to the recess portion, and (c) has a convex outer face and an inner face that is engaged with and abuts the projection portion.

19. (New): The connecting structure according to claim 18, wherein the inner face of the peripheral wall portion has a concave shape.